

Wave Streetcar Addendum No. 7 Memorandum, Issued 9/06/17

DATE: September 06, 2017
TO: District Contracts/ Final Plans
FROM: Robert Bostian, Project Manager
COPIES: File
SUBJECT: **Addendum Number 7** - Letting (mo./yr.) 09/2017
Financial Project ID 421390-7-52-01 (Lead number only)
Proposal/ Contract ID ER484
Federal Funds: ☐ No ☒ Yes Federal Aid No. D417-019-B
County: Broward State Road No.

Concurred by:  Date: 9/6/2017
Signature of Alternate Contracting Coordinator (John Olson (primary)/ Robert Bostian (alternate)) or Designee.

Legal Approval Date: 
(Dawn Raduano)

Central Office Approval Date: 9/6/2017
(State Construction Office -- Suzannah Ray)

CONTRACT TIME REVISED: ☒ No ☐ Yes (If yes, _____ Calendar Days)

RFP, pg. iii, iv and v

Attachments revised as follows:

- H. Technical Requirements for Transit Construction (TRTC)
 - 6. Volume 4 Sustainability ~~(DRAFT)~~
- L. Streetcar Regulations Plan ~~(DRAFT)~~
- O. Design-Build Firm Supplemental Submittal Requirements
 - 2. Supplemental Contract Data Requirements List (SCDRL) ~~Submittals (DRAFT)~~
- Q. U.S. DOT Federal Transit Administration Contract Requirements ~~(DRAFT)~~
- S. Environmental Permits
 - 2. USAGOEUSACE Permit No. SAJ-2016-00936 NWP
- W. VMSF Site Soil Management Plans
 - 3. Environmental Assessment Report ~~(EAR)~~
- Z. Operations and Maintenance Plan ~~(DRAFT)~~
- AA. Traffic Concept of Operations ~~(DRAFT)~~
- DD. Spare Parts Requirements and List ~~(DRAFT)~~
- EE. Training and Manuals ~~(DRAFT)~~

Wave Streetcar Addendum No. 7 Memorandum, Issued 9/06/17

Bid Price Proposal Forms: ~~(NOT INCLUDED)~~

RFP, pg. vi, viii, ix, and x

Reference Documents revised as follows:

2. General

- ~~2.1. 2015-10-07 Hydrant Flow Test 1801 SW 1st Ave.pdf~~
- ~~2.1.2.2. 2015-11-16 Preliminary Hazard Analysis Rev 1.pdf~~
- ~~2.2.2.3. 2015-11-16 Threat and Vulnerability Analysis Rev 2.pdf (TO BE PROVIDED AFTER AWARD)(SSI Document)~~
- ~~2.3.2.1. 2016-12-26 Utility Conflict Matrix.pdf~~
- ~~2.4.2.1. 2017-01-05 Utility Work Schedules.pdf~~
- ~~2.5. LEED Certification and Envision Verification Checklists.pdf (DRAFT)~~
- ~~2.6.2.4. 2016-03 City of Fort Lauderdale Sewer Map.pdf~~
- ~~2.7.2.1. Traffic Signal Warrant Analysis.pdf (NOT INCLUDED)~~
- ~~2.8.2.1. TIGER Grant Award.pdf~~
- ~~2.9.2.1. 2015-10-07 Hydrant Flow Test 1801 SW 1st Ave.pdf~~
- ~~2.10.2.5. 2016-04-25 ADA Sidewalks Evaluation Memo and Exhibits.pdf~~
- ~~2.6. 2016-12-26 Utility Conflict Matrix.pdf~~
- ~~2.7. 2017-01-05 Utility Work Schedules.pdf~~
- ~~2.8. 2017-01-09 Construction Segments Map.pdf~~
- ~~2.11.2.9. Inlet Capacity Analysis.pdf~~
- ~~2.12.2.10. LEED Certification and Envision Verification Checklists.pdf~~
- ~~2.11. TIGER Grant Award.pdf~~
- ~~2.12. Traffic Signal Warrant Analysis.pdf (NOT INCLUDED)~~

RFP, Section II Schedule of Events

Revised as follows:

Table II-1: Schedule of Events

Date	Event
09/12/2017	Deadline for submittal of written statement confirming the Design-Build Firm intends to comply fully with the requirements in the Contract Documents through Addendum No. 7.
08/23 09/18/2017	Deadline for the Department to post responses to the Pre-Bid Q&A website for questions submitted by the Design-Build Firms prior to the submittal of the Price Proposal by 5:00 pm local time.
08/28 09/22/2017	Price Proposals due in District Four Office by 11:00 am local time.
08/28 09/22/2017	Public announcing of Technical Scores and opening of Price Proposals at 11:00 am local time in Florida Department of Transportation, 3400 West Commercial Blvd., Fort Lauderdale, FL.
09/04 10/02/2017	Public Meeting of Selection Committee to determine intended Award at 9:00 am.
09/04 10/02/2017	Posting of the Department's intended decision to Award at 11:00 am.

Wave Streetcar Addendum No. 7 Memorandum, Issued 9/06/17

Table II-1: Schedule of Events

Date	Event
09/14/2017	Anticipated Award Date
10/23/2017	Anticipated Execution Date
10/23/2017	Anticipated Notice to Proceed (NTP)

RFP, Section V.A.3. Acronyms, Abbreviations, and Definitions

Revised as follows:

ACID	Access Control and Intrusion Detection
ACM	<u>Asbestos Containing Materials</u>
ADA	Americans with Disabilities Act
ADAAG	<u>Americans with Disabilities Act Accessibility Guidelines</u>
ANSI	American National Standards Institute
APC	<u>Automated Passenger Counting</u>
APTA	American Public Transportation Association
AREMA	<u>American Railway Engineering and Maintenance-of-Way Association</u>
ATC	Alternative Technical Concept
ASHRAE	<u>American Society of Heating, Refrigeration, and Air Conditioning Engineers</u>
AVL	<u>Automated Vehicle Location</u>
AWS	<u>American Welding Society</u>
AWWA	<u>American Water Works Association</u>
BCT	Broward County Transit
BCTED	<u>Broward County Traffic Engineering Division</u>
BCWWS	<u>Broward County Water and Wastewater Services</u>
BICSI	<u>Building Industry Consulting Service International</u>
BMPs	<u>Best Management Practices</u>
BPP	<u>Bid Price Proposal</u>
CDRL	<u>Contract Data Requirements List</u>
CEI	Construction Engineering and Inspection
CEL	<u>Certifiable Elements List</u>
CFR	Code of Federal Regulations
CIL	<u>Certifiable Items List</u>
CIPP	<u>Cured in Place Pipe</u>
CPM	Critical Path Method
CSL	<u>Cross-hole Sonic Logging</u>
CSER	<u>Contamination Screening Evaluation Report</u>
DBE	Disadvantaged Business Enterprise
DBF	<u>Design-Build Firm</u>
DBLA	<u>Design-Build Landscape Architect</u>
DCIC	<u>District Contamination Impact Coordinator</u>
DOL	Department of Labor
DRC	Development Review Committee
DUO	<u>District Utility Office</u>
DWCAR	<u>District Wide Contamination Assessment and Remediation Contractor</u>
EAR	Environmental <u>Assessment</u> and Remediation
EDs	Emergency Drills
EIA	<u>Electric Industry Association</u>
F.A.C.	<u>Florida Administrative Code</u>

Wave Streetcar Addendum No. 7 Memorandum, Issued 9/06/17

FC	Fare Collection
FCC	Federal Communications Commission
FDEP	Florida Department of Environmental Protection
FDPR	Florida Department of Business and Professional Regulation
FECR	Florida East Coast Railway, LLC
FHWA	Federal Highway Administration
FLEPPC	Florida Exotic Pest Plant Council
FRA	Federal Railroad Administration
FTA	Federal Transit Administration
GFDEOR	Geotechnical Foundation Design Engineer of Record
HIPAA	Health Insurance Portability and Accountability Act
HVAC	Heating, Ventilation, and Air Conditioning
IA	Independent Assurance
ICEA	Insulated Cable Engineers Association
ID	Identification
IDS	Intrusion Detection System
IEEE	Institute of Electrical and Electronic Engineers
IES	Illumination Engineers Society
ISA	International Society of Arboriculture
JGS	Job Guide Schedule
LCIS	Lane Closure Information System
LEED	Leadership in Engineering Energy and Environmental Design
LTLC	Long Term Lane Closure
MDT	Mobile Data Terminals
MEP	Mechanical, Electrical, Plumbing
MEPDG	Mechanistic-Empirical Pavement Design Guide
MMOA	Maintenance Memorandum of Agreement
MOT	Maintenance of Traffic
MOW	Maintenance of Way
MOV	Means of Verification
MOVD	Maintenance of Vehicle Detection
MOW	Maintenance-of-Way
MPO	Broward Metropolitan Planning Organization
NACE	National Association of Corrosion Engineering
NASSCO	National Association of Sewer Service Companies
NEC	National Electric Code
NECA	National Electrical Contractors Association
NEMA	National Electric Manufacturers Association
NEPA	National Environmental Policy Act
NESC	National Electric Safety Code
NFAC	No Further Action with Controls
NFPA	National Fire Protection Agency Association
NOI	Notice Of Intent
NPDES	National Pollution Discharge Elimination System
OMP	Operations and Maintenance Plan
OSHA	Occupational Safety and Health Administration
OSP	One Stop Permitting
PAS	Public Address System
PDF	Portable Document Format
PHA	Preliminary Hazard Analysis
PIC	Public Involvement Consultant

Wave Streetcar Addendum No. 7 Memorandum, Issued 9/06/17

PHA	Preliminary Hazard Analysis
PIS	Passenger Information Systems
PLTLC	<u>Partial Long Term Lane Closure</u>
Q&A	<u>Question and Answer</u>
RAP	<u>Rail Activation Plan</u>
SCP	<u>Situational Crime Prevention</u>
SEPP	<u>Security and Emergency Preparedness Plan</u>
SFWMD	South Florida Water Management District
SHPO	<u>State Historic Preservation Officer</u>
SSI	<u>Security Sensitive Information</u>
SSPC	<u>Society for Protective Coatings</u>
SSPP	<u>System Safety Program Plan</u>
SSRC	Safety and Security Review Committee
STLC	<u>Short Term Lane Closure</u>
SVMP	Settlement and Vibration Monitoring Plan
SWPPP	<u>Storm Water Pollution Prevention Plan</u>
TCP	<u>Traffic Control Plan</u>
TCLP	<u>Toxicity Characteristic Leaching Procedure</u>
TDMM	<u>Telecommunication Distribution Methods Manual</u>
TES	Traction Electrification System
TIA	<u>Telecommunications Industry Association</u>
TPSS	Traction Power Supply System
TRB	<u>Transportation Research Board</u>
TS	<u>Technical Score</u>
TSP	<u>Technical Special Provision</u>
TVM	Ticket Vending Machine
TWC	<u>Train-to-Wayside Communications</u>
UA/Os	<u>Utility Agency/ Owners</u>
USACE	<u>U.S. Army Corps of Engineers</u>
USCG	United States Coast Guard
USC&GS	<u>U.S. Coast and Geodetic Survey</u>
USEPA	<u>United States Environmental Protection Agency</u>

RFP, Section V.E.3. Vehicle Maintenance and Storage Facility

Revised as follows:

Contamination

The site is subject to an Environmental Assessment and Remediation (EAR) license with Broward County, EAR number 1235.

RFP, Section V.F. Railroad Coordination

Revised as follows:

All personnel entering the railroad right-of-way may be required to comply with the requirements of the Federal Railroad Administration (FRA), Roadway Worker Protection, 49 Code of RegulationFederal Regulations (CFR), Part 214, including, without limitations, the training and qualification requirements, and with the FRA's On-Track Safety Program.

Wave Streetcar Addendum No. 7 Memorandum, Issued 9/06/17

RFP, Section V.DD.1

Table V.DD.-2 ROW Encroachments

Location	Folio	Description	Status
511 N Andrews	504203021180	Canopy	To Remain
500 N Andrews	504203021000	Canopy	To Remain
430 N Andrews	504203021800	Canopy	To Remain
421 N Andrews	504203021500	Canopy	To Remain
413 N Andrews	504203021510	Canopy	To Remain
412 N Andrews	504203021770	Canopy	To be removed as needed by FDOT To Remain
406 N Andrews	504203021760	Canopy	To Remain
115 S Andrews	504210020050	Canopy	To Remain
200 SW 1 st Avenue	504210012740	Canopy	To Remain
Brickell at SE 2 nd Ave	n/a	Riverfront Entrance Sign	To be removed by DBF, and delivered to the City of Fort Lauderdale
W Las Olas Ave at S Andrews	504210012891	Riverfront Exit Sign	To be removed by DBF, and delivered to the City of Fort Lauderdale
301 E Las Olas Ave	504210AF0010	Canopy	To Remain
200 SE 6 th Street	504210550100	Canopy	To Remain
200 SE 6 th Street	504210550100	Canopy	To Remain
1101 S Andrews	504215011730	Canopy	To Remain
1227 S Andrews	504215100180	Canopy	To Remain
1222 S Andrews	504215100270	Canopy	To Remain
1230 S Andrews	504215100280	Canopy	To Remain
1412 S Andrews	504215101500	Canopy	To Remain
1424 S Andrews	504215101510	Canopy	To Remain
1507 S Andrews	504215102211	Canopy	To Remain
1509 S Andrews	504215102220	Canopy	To Remain
1515 S Andrews	504215102250	Canopy	To Remain

The following locations have been identified by the Department for license agreements or easements. The Design-Build Firm shall include the harmonization/ modification work specified. In the event the license agreements are not secured by the Department, the Design-Build Firm is responsible for providing a complete design within the existing right of way.

Address	Folio	Description	Status
601 NE 3 rd Ave	494234075720	LA for sidewalk harmonization.	Acquisition is ongoing.
NE 6 th Street	494234075730	LA for sidewalk harmonization.	Acquisition is ongoing.
602 NE 2 nd Ave	494234075740	LA for sidewalk harmonization.	Acquisition is ongoing.
446 N Andrews	504203021840	LA for driveway harmonization due to road widening.	Acquisition is ongoing.
440 N Andrews	504203021810	LA for driveway harmonization due to	Acquisition is ongoing.

Wave Streetcar Addendum No. 7 Memorandum, Issued 9/06/17

		road widening.	
N Andrews	504203021801	LA for driveway harmonization due to road widening.	Acquisition is ongoing.
424 N Andrews	504203021790	LA for driveway harmonization due to road widening.	Acquisition is ongoing.
200 E Las Olas	504210940020	License Agreement for harmonization of sidewalks, removal of large trees, new landscaping and irrigation including <u>6 (six) 28' (overall) Phoenix Dactylifera 'Medjool' Date 12 (twelve) 24' (overall) Montgomery Palms.</u> Area behind and near station platform.	Acquisition is ongoing.
18 NW 1 st Ave	504210011920	Permanent easement for sidewalk modifications.	Acquisition is ongoing.
350 E Las Olas	504210AE0020	License Agreement for harmonization of sidewalks. Area behind and near station platform.	Acquisition is ongoing.
633 S Andrews	504210015520	LA for driveway harmonization due to road widening.	Acquisition is ongoing.

RFP, Section VI.C.1. Drilled Shaft Foundations for Miscellaneous Structures

Revised as follows:

The Design-Build Firm shall be responsible for the following:

8. For redundant drilled shaft bridge foundations and drilled shafts for miscellaneous structures, perform Cross-hole Sonic Logging (CSL) or Thermal Integrity testing on any shaft suspected of containing defects.

RFP, Section VI.D.2. Utility Plans - Water

Revised as follows:

- Existing water mains that are already abandoned and remain in the ground within the track slab zone of influence shall be capped at ends and filled with grout, and the locations and extents noted in the as-built plans.

RFP, Section VI.F. Geometric Design

Revised as follows:

SE 6th Street between Andrews Avenue and SE 3rd Avenue

Wave Streetcar Addendum No. 7 Memorandum, Issued 9/06/17

An accessible passenger loading zone shall be provided along the north side of SE 6th Street to accommodate drop off and pick up of passengers at the Broward County Courthouse. The loading zone shall offset to the right of the westbound travel lane and accommodate a minimum of three (3) vehicles without blocking westbound through traffic along SE 6th Street. At the intersection of S Andrews Avenue/SE 6th Street intersection, the Design-Build Firm shall provide one (1) lane eastbound and two (2) lanes westbound. The two (2) lanes provided for the westbound traffic shall accommodate a shared Streetcar and general traffic left turn only lane and a combination through and right turn lane. The left turn lane shall be a minimum of 150' long.

RFP, Section VI.M.3. Traffic and Navigation Control Restrictions

Revised as follows:

		Existing Conditions				Requirements for Construction				
Constr. Segment	Limits	Street Width (approx ft)	Number of Through Traffic Lanes		Typical Median Width (approx ft)	Street Parking (Yes/ No)	Number of Through Traffic Lanes		Traffic Control Restrictions	Max Days of Constr.*
3	Brickell Ave (SW 2 nd St to W Las Olas Blvd)	30	2 SB		0	Y	1SB		PLTLC	270
	W Las Olas Blvd (Brickell to S Andrews)	20	2 EB		0	N	1 EB		PLTLC*	
	E Las Olas Blvd (S Andrews Ave to SE 1 st Ave)	57	2 EB	<u>2</u> WB	8 (separator) ↓	N	1 EB	<u>2</u> WB	PLTLC	
	E Las Olas Blvd (SE 1 st Ave to SE 2 nd Ave)	38	2 EB	2 WB	4 (separator) ↔	N	1 EB	<u>4</u> WB	PLTLC	
	E Las Olas Blvd (SE 2 nd Ave to SE 3 rd Ave)	Varies (45-60)	2 EB	<u>4</u> WB	4 (separator) ↓	N	1 EB	<u>4</u> WB	PLTLC	

RFP, Section VI.R.4. Establishment and Maintenance

Revised as follows:

4. Establishment and Maintenance ~~Period & Warranty~~

The Design-Build Firm shall maintain all existing, replaced, and relocated landscape ~~for an establishment period of two (2) years for relocated landscape material following the~~ Final Acceptance ~~of the Tree Relocation work~~. During this period, the Design-Build Firm shall ensure that all relocated landscape is in the same or better condition than was documented by the Engineer prior to the time of relocation and approved in writing by the maintaining municipality

Wave Streetcar Addendum No. 7 Memorandum, Issued 9/06/17

prior to turning over the landscape to the maintaining agency. The limits of the landscape maintenance shall include all areas within the Project limits. The Design-Build Firm shall guarantee a minimum of 90% of the relocated trees ~~for the entire two (2) year establishment period until~~ Final Acceptance. Any trees that die beyond the maximum 10% allowance must be replaced with a new tree of like size and type. Trees that die within the 10% allowance must be removed and the tree pit area must be filled to match existing grade. All areas disturbed to perform this work must be restored and either mulched or sodded to match existing conditions. Replacement sod type shall match existing adjacent areas.

The Design-Build Firm shall maintain within the Project limits and within the Project right-of-way free of all FLEPPC Category I invasive exotic species ~~for the establishment period of one (1) year following the~~ until Final Acceptance of the Project.

RFP, Section VII.B. Submittal Requirements

Submit one (1) Original, seven (7) Flash Drives containing the Technical Proposal in PDF format and seven (7) collated, complete sets of hard copies of the Technical Proposal to:

~~Jessica Rubio~~
~~Adalgisa Rodriguez~~
Florida Department of Transportation
3400 West Commercial Blvd.
Fort Lauderdale, FL 33309

RFP, Section VIII.A. Bid Price Proposal

One (1) hard copy Bid Price Proposal shall be hand delivered in a separate sealed package to the following:

~~Jessica Rubio~~
~~Adalgisa Rodriguez~~
Florida Department of Transportation
3400 West Commercial Blvd.
Fort Lauderdale, FL 33309

(Minor formatting corrections not listed)

RFP Attachment B, Division I Specifications

Revised as follows:

Updated

RFP Attachment G, Transit Criteria, Revision Record

Revised as follows:

Wave Streetcar Addendum No. 7 Memorandum, Issued 9/06/17

REV. DATE	REV. NO.	SECTIONS AFFECTED	COMMENTS
<u>09/01/17</u>	<u>5</u>	<u>Sections 4, 7, and 8</u>	<u>Addendum 7</u>

RFP Attachment G, Transit Criteria, Section 4.2.1

Demolition

Revised as follows:

The VMSF site ~~includes an existing building and concrete wall that will be removed by others prior to award to the Design-Build Firm.~~ has been cleared by FDOT.

RFP Attachment G, Transit Criteria, Section 4.2.4

Yard Track Layout

Revised as follows:

There shall be three tracks located within the VMSF Building. One track will serve as the maintenance bay track, and the second track will serve as the inspection track with a pit and mezzanine, and the third track will be utilized as vehicle storage. The area outside the VMSF Building where the three tracks enter the building shall be concrete paved to provide access for employees and equipment to maneuver and connect to the independent Wash Facility.

RFP Attachment G, Transit Criteria, Section 4.2.9

Security

Revised as follows:

Yard shall be provided with complete CCTV coverage, cameras to be located no more than two (200') hundred feet on center and at every perimeter fence gate. ~~Provide optical sensors at fence posts if perimeter fencing is less than ten (10') feet high; in no case shall the fencing be less than six (6') feet high.~~ Provide electrical grounding for metal fence and railings.

A perimeter intrusion detection system (PIDS) shall be provided for the VMSF. The PIDS system shall monitor and alert any personnel of climbing or tampering with the fence system. The PIDS system shall be integrated with the surveillance system to automatically display an alarm and pop-up the area of concern to the security workstation. Events shall be capable of triggering recording at enhanced resolutions and frame rates.

RFP Attachment G, Transit Criteria, Section 4.3.18.1

Intrusion Detection

Revised as follows:

~~A perimeter intrusion detection system (PIDS) shall be provided for the VMSF. The PIDS system shall monitor and alert any personnel or vehicle approach to the perimeter fence as well as climbing or tampering with the fence system. The PIDS system shall be integrated with the~~

Wave Streetcar Addendum No. 7 Memorandum, Issued 9/06/17

~~surveillance system to automatically display an alarm and pop up the area of concern to the security workstation. Events shall be capable of triggering recording at enhanced resolutions and frame rates.~~

RFP Attachment G, Transit Criteria, Section 5.3.2 Configuration

Overhead

Contact

System

Revised as follows:

On the northbound track at station #3 and the southbound track at station #13, the OCS will be designed to have a de-energized section of in running contact wire for a distance of +/- 100 feet beyond the end of the platform. This will be achieved by cutting into the OCS at the end of the platform a non-bridging section insulator assembly that will allow the pantograph to pass onto the de-energized section of contact wire if the if the transfer of the power source to batteries has not been performed.

RFP Attachment G, Transit Criteria, Section 7.1. General

Revised as follows:

Section 7 describes the criteria for the train control system that includes, but is not limited to, streetcar location detection, signaling and route controls, drawbridge interface including track circuits, rail proximity detectors, STOP Enforcement (Magnetic Trip Stops (MTS) or Automatic Train Protection (ATP)) and provisions for the Bridge Control Desk Facility and panel, train-to-wayside communications (TWC), traffic signal interfaces and associated interfaces with other operational systems.

RFP Attachment G, Transit Criteria, Section 7.4. Operational Design Requirements

Revised as follows:

Passenger Door Functions: With the Streetcar properly birthed over the TWC loop, the operator will be provided the functionality to open the passenger doors. This function shall prohibit the ability to open any doors that are not protected or would open to vehicle traffic. ~~Furthermore, at specific~~

Pantograph Functions: With the streetcar properly birthed over the TWC loop, at stations #3, #6 and #13 the TWC system shall verify that the pantograph is in the proper (Raised/ Lowered) position. The Design-Build Firm shall coordinate these functions with the streetcar manufacture. The following are specific functions:

1. At station 3 Northbound request and ensure the pantograph is lowered prior to providing the proceed signal.
2. At station 3 Southbound request and ensure the pantograph is raised prior to providing the proceed signal.
3. At station 6 request and ensure the pantograph is raised prior to providing the proceed signal.

Wave Streetcar Addendum No. 7 Memorandum, Issued 9/06/17

4. At station 13 request and ensure the pantograph is lowered prior to providing the proceed signal.

For each of these locations an additional Bar signal, pedestal or other FDOT approved mounted technique, will provide the streetcar the STOP (Pantograph not in the desired position) or Proceed (pantograph is in the desired position) signal.

The Design-Build Firm shall incorporate the following additional requirements into the final design of the train control system:

- ~~1. The Design-Build Firm shall coordinate with the Department to determine which of the two options listed below will be selected by the City and designed and installed by the Design-Build Firm for the Turnback interlocking prior to Streetcar station #4 (SE 6th Street). The two options are:~~
 - ~~a. Full closure of the street~~
 - ~~i. Design-Build Firm shall reverse the turnback.~~
 - ~~b. Vehicle traffic in one direction (east)~~
7. Design-Build Firm shall design and install the turnback as shown in the design criteria Figure 7-1c for one direction vehicle westbound traffic and provide an interface to the SE 6th Street and SE 3rd Ave Avenue traffic signal. This design shall include a protected move allowing the streetcar to transition from streetcar station #4 back to South Andrews Ave Avenue through the crossover, controlled by the TWC. During this streetcar transition, no vehicle traffic shall be allowed onto SE 6th Street and a blank-out sign shall be included to alert vehicles of this streetcar move.

~~In either option,~~ Two-way vehicular traffic shall be accommodated along SE 6th Street, east of the SE 6th Street station stops and east of South Andrews Avenue to SE 1st Avenue.

RFP Attachment G, Transit Criteria, Section 7.12.1

Bridge Interlocks

Revised as follows:

- Stop Enforcement: Option 1: Magnetic Trip Stop (MTS) Devices or Option 2: Automatic Train Protection (ATP) Enforcement to prevent the Streetcar from entering the open bridge deck limits. The Design-Build Firm shall provide to the vehicle supplier the related vehicle equipment, (magnetic trip stop antennas and on-board devices) to be installed on the vehicle ensure that the streetcar will be enforced to stop prior to the bridge. The Design-Build Firm will coordinate the design with the vehicle supplier prior to the installation of the on-board equipment performed by the vehicle supplier. Either method, the MTS ~~devices~~ or ATP options shall be active (Enforce Positive stop) when the bar signal is horizontal. The Design-Build Firm Systems Integrator shall be responsible for the proper function of the entire MTS or ATP system approach to include the testing of the vehicle and wayside devices.

Wave Streetcar Addendum No. 7 Memorandum, Issued 9/06/17

RFP Attachment G, Transit Criteria, Section 8.13

WI-FI Systems

Revised as follows:

8.13 WI-FI AND WI-MAX SYSTEMS

The Design-Build Firm shall provide a Wi-Fi (IEEE 802.11 standard) system with all areas of the VMSF building and yard. The design shall provide overlapping antennae coverage that limits Wi-Fi transmissions to 100 feet beyond the property fence line.

The Design-Build Firm shall provide a Wi-MAX (IEEE 802.16 standard) reaching all points within the VMSF building and the yard, including the vehicles. Each Streetcar vehicle shall be addressable through the 4G LTE system along the corridor. ~~Wi-Max system.~~

Both the Wi-Fi, ~~and~~ Wi-MAX, and 4G LTE systems shall be capable of reaching (peak) 100 Mbps in a 20 MHz channel.

RFP Attachment G, Transit Criteria, Section 8.14 Systems

Integrated

Communication

In addition certain data generation protocols, and data handling and storage must be integrated; including, but not limited to:

1. On-board control systems.
2. On-board CCTV Systems – Download through Wi-Max at the VMSF, with long-term storage at the OCC from the on-board digital video recorder.
3. Automatic Passenger Counting (APC) - Download through Wi-Max at the VMSF, with long-term storage at the OCC.

RFP Attachment H.1. Volume 1 Track and Miscellaneous, Section 800

Revised as follows:

Updated

RFP Attachment H.2. Volume 2A Systems: Traction Power Supply and Distribution, Signal and Route Control, Fare Collection, Systems Integration, Section 810

Revised as follows:

Updated

RFP Attachment H.3. Volume 2B Systems Communications, Section 840

Revised as follows:

Updated

Wave Streetcar Addendum No. 7 Memorandum, Issued 9/06/17

RFP Attachment H.4. Volume 3A Vehicle Maintenance and Storage Facility Building, Equipment, and Furnishings, Section 860

Revised as follows:

Updated

RFP Attachment H.5., Volume 3B Vehicle Maintenance and Storage Facility Mechanical, Electrical, Plumbing and Fire-Protection, Section 880

Revised as follows:

Updated

RFP Attachment H.6., Volume 4 Sustainability, Section 890

Revised as follows:

Updated

RFP Attachment O.2., Contract Data Requirements List (CDRL) Submittals

Revised as follows:

Updated

RFP Attachment Q, U.S. DOT Federal Transit Administration Contract Requirements

Revised as follows:

Updated

RFP Attachment BB, VMSF Concept of Operations

Revised as follows:

Plan Updated

Equipment List Updated:

<u>5414</u>	<u>Jack, stand, lift, portable</u>	<u>84</u>
-------------	------------------------------------	-----------

Wave Streetcar Addendum No. 7 Memorandum, Issued 9/06/17

RFP Attachment DD, Spare Parts Requirements and List

Revised as follows:

Requirements added and list updated

RFP Attachment EE, Training and Manuals

Revised as follows:

Requirements added and list updated

RFP Reference Document 2.1, Concept Design Drawings

Revised as follows:

2016-04 Wave Streetcar Systems Cathodic Protection

RFP Reference Document 2.5.1., Alignment CADD Files and List

Revised as follows:

ROW CADD file
